

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:

Chou LI

Serial Number: To be determined

Division of application of US. 09/053, 741

Prior Group Art Unit: 3729

Filed: June 25, 2001

Prior Examiner: CHANG, R.

For: HEAT RESISTANT ELECTRONIC SYSTEMS AND CIRCUIT BOARD

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

June 25, 2001

Dear Sir:

Prior to issuing an action on the merits please amend the subject application as set forth below:

In the specification

Page 41, line 22, after "bottom." delete "(need figure?).delete".

Please renumber pages 56, 57, 58 ,59,60, 61, 62 and 63 as 55, 56, 57 , 58 , 59, 60, 61 and 62.

In the claims

Please cancel all claims, claims 1-43, and substitute therefor new claims 44-51:

44. A metal-matrix composite material comprising a base material reinforced by an additive which has a melting point of at least 300° C greater than that of the base material.

45. The composite as in claim 44 in which the base material is a metal base material which is reinforced by a strengthening additive to enhance said base material at least in more than two properties selected from the properties of mechanical strength, thermal stability and electrical properties.

46. The composite as in claim 44 in which the metal base is selected from the group consisting of aluminum, magnesium, titanium, iron, nickel, copper and gold.

47. The composite as in claim 44 in which the additive is selected from the group consisting of ceramic, intermetallic and refractory material.

48. The composite as in claim 44 in which the additive has a melting point at least 400°C greater than that of the base material.

49. The composite as in claim 44 in which the additive has a mechanical strength at least over 50% more than that of the base material.

50. The composite as in claim 1 in which the additive has a thermal conductivity at least 50% more than that of the base material.

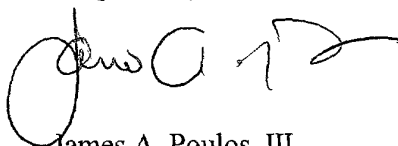
51. The composite as in claim 1 in which the additive has an electrical conductivity at least 50% more than that of the base metal.

REMARKS

Applicants are submitting with this Divisional application a certified copy of the prior application. It appears from a review of this certified copy, that the patent and trademark Office lost sheet 7, Figs 10 and 11 of the original filed prior application No. 09/053,741. Attached is a copy of the post card date stamped April 2, 1998 showing receipt by the patent and trademark office of all seven sheets of figs 1-11. A copy of Figs. 10 and 11 is also submitted along with a complete set of formal drawings. Thus, applicants, on April 2, 1998 filed an application with Figs 1-11 and this application, claiming the benefit of the earlier application contains no new matter in Figs. 1-11 attached.

Please charge the undersigns Deposit Account No. 50-1770 any amount needed to effect entry of this amendment. Please credit any overcharge to said account

Respectfully submitted,



James A. Poulos, III
Attorney for Applicants
Registration No. 31,714

9001 Garland Ave
Silver Spring, MD 20901
301 495-6341

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SUBMISSION OF FORMAL DRAWINGS

Assistant Commissioner for Patents
Washington, D.C. 20231

June 25, 2001

Dear Sir:

Attached hereto are six (6) sheets of new formal drawings including Figs. 1-11, to replace corresponding sheets containing the informal drawings which were found objectionable.

From a review a certified copy of the application of the parent application as filed, and submitted as part of this divisional filing, it appears that the USPTO lost original sheet 7 of the drawings figs 9 and 10. Attached is a copy of post card date stamped by the PTO on April 2, 1998 showing the acceptance of Figures 1-11.

Entry and acceptance of the formal drawings is respectfully requested.

If any fees are required with respect to this paper, please charge the Deposit Account No. 50-1770.

Respectfully submitted,

James A. Poulos III

Attorney for Applicant

Registration No. 31,714

Atty. Docket No. '741

9001 Garland Ave.
Silver Spring, MD 20901
Enclosures: Formal Drawings